PATENT COOPERATION TREAT

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

REC'D 15 FEB 2006

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 019904003310	FOR FURTHER ACT	TION	See Form PCT/IPEA/416						
International application No.	International filing date (da	ay/month/year)	Priority date (day/month/year)						
PCT/US2005/008049	09.03.2005		09.03.2004						
International Patent Classification (IPC) or national classification and IPC									
C07D471/04, C07D498/04, A61K31/437, A61P25/24									
Applicant									
	Applicant CORCEPT THERAPEUTICS, INC. et al.								
Authority under Article 35 and tra	 This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 								
2. This REPORT consists of a total									
3. This report is also accompanied			an fallance						
a. 🛛 sent to the applicant and	to the International Bureau	u) a total of 1 sneets	, as follows:						
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).									
D shoots which superes	de earlier sheets, but whi	ch this Authority cons	siders contain an amendment that goes						
beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.									
b 🖂 (cent to the International Burgay only) a total of (indicate type and number of electronic carrier(s)) , containing a									
sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).									
Box Housing to a quant	DOX Relating to dequence clothing (coo decision doz of the realisment and the mentalisment.								
4. This report contains indications r	elating to the following ite	ms:							
☐ Box No. I Basis of the op	inion								
☐ Box No. II Priority									
	nent of opinion with regar	d to novelty, inventive	step and industrial applicability						
☐ Box No. IV Lack of unity of invention									
⊠ Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement									
☐ Box No. VI Certain documents cited									
☐ Box No. VIII Certain observations on the international application									
Date of submission of the demand		Date of completion of the	nis report						
00.01.0006		14.00.0006							
06.01.2006		14.02.2006							
Name and mailing address of the internation	onal	Authorized Officer	aches Patenton						
preliminary examining authority: ———— European Patent Office			See Marie Marie						
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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/US2005/008049

filled, unless otherwise indicated under this irem. This report is based on translations from the original language into the following language, which is the language of a translation furnished for the purposes of: international search (under Rules 12.3 and 23.1(b)) publication of the international application (under Rule 12.4) international preliminary examination (under Rules 55.2 and/or 55.3) With regard to the elements* of the international application, this report is based on (replacement sheets with have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filled" and are not annexed to this report): Description, Pages 1-145 as originally filled Claims, Numbers 1(part), 2-32 as originally filled 1(part) received on 09.01.2006 with letter of 06.01.2006 a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing The amendments have resulted in the cancellation of: the description, pages the claims, Nos. the drawings, sheets/figs the sequence listing (specify): any table(s) related to sequence listing (specify):						
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3. ☐ The amendments have resulted in the cancellation of: ☐ the description, pages ☐ the claims, Nos. ☐ the drawings, sheets/figs ☐ the sequence listing (specify): ☐ any table(s) related to sequence listing (specify): ☐ This way at here been established as if (some of) the amendments annexed to this report and listed below						
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This report has been established as if (some of) the amendments annexed to this report and listed below						
had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).	ow the					
 □ the description, pages □ the claims, Nos. □ the drawings, sheets/figs □ the sequence listing (specify): □ any table(s) related to sequence listing (specify): 						
* If item 4 applies, some or all of these sheets may be marked "superseded."						

ON PATENTABILITY

International application No. PCT/US2005/008049

	Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability						
١.	The obvi	e questions whether the claimed invention appears to be novel, to involve an inventive step (to be non- vious), or to be industrially applicable have not been examined in respect of:					
		the entire international application,					
	\boxtimes	claims Nos. 29-31 (industrial applicability)					
		because:					
	\boxtimes	★ The said international application, or the said claims Nos. 29-31 relate to the following subject matter which does not require an international preliminary examination (specify):					
		see separate sheet					
		the description, claims or drawings (indicate particular elements below) or said claims Nos. are so unclear that no meaningful opinion could be formed (specify):					
		the claims, or said claims Nos. are so inadequately supported by the description that no meaningful opinion could be formed.					
		no international search report has been established for the said claims Nos.					
		the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in Annex C of the Administrative Instructions in that:					
		the written form		has not been furnished			
				does not comply with the standard			
		the computer readable form		has not been furnished			
				does not comply with the standard			
		the tables related to the nucleotide and/or amino acid sequence listing, if in computer readable form only, not comply with the technical requirements provided for in Annex C-bis of the Administrative Instructions.					
		See separate sheet for further	deta	ils			



International application No. PCT/US2005/008049

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

1-32

No: Claims

Inventive step (IS)

Yes: Claims

1-32

No: Claims

Industrial applicability (IA)

Yes: Claims

1-28,32

No: Claims

2. Citations and explanations (Rule 70.7):

see separate sheet

PCT/US2005/008049

Re Item III

Claims 29-31 relate to subject-matter considered by this Authority to be covered by the provisions of Rule 67.1(iv) PCT. Consequently, no opinion will be formulated with respect to the industrial applicability of the subject-matter of these claims (Article 34(4)(a)(l) PCT).

Re Item V

1. PRIOR ART

Reference is made to the following documents:

D1: WO 03/061651 A D2: EP-A-0 375 210

2. NOVELTY

The subject-matter of the claims is novel (Article 33(2) PCT). D2 discloses in claim 1 a generic formula which differs from the generic formula of present claim 1 in the substituent R1 of the present application.

3. INVENTIVE STEP

The subject-matter of the claims can be considered as involving an inventive step (Article 33(3) PCT). The document D1 is regarded as being the closest prior art to the subject-matter of claim 1. It discloses tricyclic ligands for the corticoid receptor, which differs from the present compounds in that only one of the rings is heterocyclic, no isoquinoline moiety is present. The problem to be solved by the present invention is seen in the provision of further tricyclic derivatives as ligands for the corticoid receptor. In view of the experimental part and the other information as given in the description, it can be assumed that this problem has been solved for those compounds as disclosed in the claims. The prior art D2 gives no indication that the disclosed compounds possess an activity as ligands for the corticoid receptor. Therefore, D1 and D2 together would give no information, which would motivate a man skilled in the art to arrive at the present invention.

(I)

rinted: 30/01/2006

WHAT IS CLAIMED IS:

1. A compound having the formula:

$$\begin{array}{c|c}
R^1 \\
\hline
A \\
b \\
\hline
\end{array}$$

wherein,

 L^1 and L^2 are members independently selected from a bond, -O-, -S-, S(O)-, -S(O₂)-, -C(O)-, -C(O)O-, -C(O)NH-, substituted or unsubstituted alkylene, and substituted or unsubstituted heteroalkylene;

the dashed line b is optionally a bond;

the ring A is a member selected from substituted or unsubstituted 5 to 6 membered heterocycloalkyl, and substituted or unsubstituted heteroaryl;

- R¹ is a member selected from substituted or unsubstituted alkyl, substituted or unsubstituted heteroalkyl, substituted or unsubstituted cycloalkyl, substituted or unsubstituted heterocycloalkyl, substituted or unsubstituted aryl, substituted or unsubstituted heteroaryl, -OR^{1A}, -NR^{1C}R^{1D}, -C(O)OR^{1A}, wherein
 - R^{1A} is a member selected from hydrogen, substituted or unsubstituted alkyl, substituted or unsubstituted heteroalkyl, substituted or unsubstituted cycloalkyl, substituted or unsubstituted heterocycloalkyl, substituted or unsubstituted aryl, and substituted or unsubstituted heteroaryl;
 - R^{1C} and R^{1D} are members independently selected from substituted or unsubstituted alkyl, substituted or unsubstituted heteroalkyl, substituted or unsubstituted or unsubstituted heterocycloalkyl, substituted or unsubstituted or unsubstituted or unsubstituted or unsubstituted heteroaryl,
 - wherein R^{1C} and R^{1D} are optionally joined to form a substituted or unsubstituted ring with the nitrogen to which they are attached,